

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2005/005508

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61P35/00 A61K31/711 A61K31/7105 A61K31/713 A61K31/37  
A61K31/565

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61P A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>LAVALLEE T M ET AL: "2-Methoxyestradiol up-regulates death receptor 5 and induces apoptosis through activation of the extrinsic pathway"</p> <p>CANCER RESEARCH 15 JAN 2003 UNITED STATES, vol. 63, no. 2, 15 January 2003 (2003-01-15), pages 468-475, XP002329788</p> <p>ISSN: 0008-5472</p> <p>page 474, last paragraph; figures 1,5</p> <p>-----</p> <p>-/--</p>	1-8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

30 May 2005

Date of mailing of the international search report

10/06/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>IKEDA T ET AL: "Induction of redox imbalance and apoptosis in multiple myeloma cells by the novel triterpenoid 2-cyano-3, 12-dioxoolean-1,9-dien-28-oic acid"</p> <p>MOLECULAR CANCER THERAPEUTICS 2004 UNITED STATES, vol. 3, no. 1, 2004, pages 39-45, XP002329789 ISSN: 1535-7163 page 42, left-hand column, paragraph 2 page 44, last paragraph</p>	1-8
X	<p>US 2004/018181 A1 (KUFFE DONALD W ET AL) 29 January 2004 (2004-01-29) paragraphs '0099!', '0101!', '0126!', '0187!', '0188!'; figure 7</p>	1-8
P,X	<p>WO 2004/092339 A (ILEX PRODUCTS, INC; ARBOR VITA CORPORATION; DANA-FARBER CANCER INSTITUTE) 28 October 2004 (2004-10-28) page 63, line 9 - line 23; claim 11</p>	1,2,7,8
A	<p>TOPP MAX S ET AL: "MUC-1 Specific T-Cells Are Present in Multiple Myeloma Patients at High Frequency after Allogeneic Transplantation but May Not Mediated the Graft Versus Myeloma Effect." BLOOD, vol. 100, no. 11, 16 November 2002 (2002-11-16), page Abstract No. 5191, XP001205800 &amp; 44TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF HEMATOLOGY; PHILADELPHIA, PA, USA; DECEMBER 06-10, 2002 ISSN: 0006-4971 abstract</p>	1-8
A	<p>WALSH M D ET AL: "Heterogeneity of MUC1 expression by human breast carcinoma cell lines in vivo and in vitro" BREAST CANCER RESEARCH AND TREATMENT 1999 UNITED STATES, vol. 58, no. 3, 1999, pages 255-266, XP002329790 ISSN: 0167-6806 table 1</p>	1-8

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>BERGER JOHN T ET AL: "Respiratory carcinoma cell lines: MUC genes and glycoconjugates"</p> <p>AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY,</p> <p>vol. 20, no. 3, March 1999 (1999-03),</p> <p>pages 500-510, XP002329791</p> <p>ISSN: 1044-1549</p> <p>table 1</p> <p style="text-align: center;">-----</p>	1-8

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## Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 1-8 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/US2005/005508

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004018181 A1	29-01-2004	US 2005053606 A1	10-03-2005
		AU 2003290710 A1	03-06-2004
		WO 2004044160 A2	27-05-2004
		US 2005042209 A1	24-02-2005
		AU 9263101 A	26-03-2002
		CA 2421751 A1	21-03-2002
		CN 1455680 A	12-11-2003
		EP 1317278 A2	11-06-2003
		JP 2004515472 T	27-05-2004
		WO 0222685 A2	21-03-2002
WO 2004092339 A	28-10-2004	WO 2004092339 A2	28-10-2004